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YJS 12/27/2007.
BRIAN SINES
PRIMARY EXAMINER

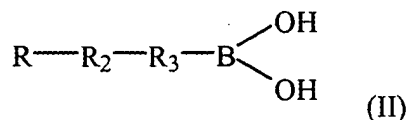
Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

1-11. (Canceled)

~~12.~~¹ (Previously Presented) An analyte detector comprising:
a field effect transistor having a gate surface; and
a monolayer of molecules, each molecule bonded to the gate surface, the molecules
having a structure (II):



wherein,

R is a ligand bonded to the gate surface;

R₂ is a (C₁₀ - C₂₄) alkylene, or (C₁₀ - C₂₄) alkenylene; and

R₃ is an (C₃ - C₁₄) cycloalkylene, (C₃ - C₁₄) heterocyclylene, (C₃ - C₂₄) arylene, or (C₃ - C₁₄) heteroarylene.

~~2~~¹~~13.~~ (Original) The analyte detector according to claim ~~1~~¹, wherein R₂ is a (C₁₀ - C₂₀) alkylene.

~~3~~¹~~14.~~ (Original) The analyte detector according to claim ~~1~~¹, wherein R₃ is a phenylene or naphthalene.

~~4~~¹~~15.~~ (Original) The analyte detector according to claim ~~1~~¹, wherein the ligand is thiol, phosphate, or siloxane.

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Amendment filed December 21, 2007

5/6. (Original) The analyte detector according to claim 1/1, wherein the gate surface is a conducting surface.

6/6. (Original) The analyte detector according to claim 1/1, wherein the gate surface is a non-continuous conducting surface of the field effect transistor, and the monolayer of molecules form a non-conducting layer on the semi-conducting surface.

7/6. (Original) The analyte detector according to claim 1/1, wherein the gate surface is an insulating surface.

19-34. (Canceled)